Series AXS-600 / AXF-600 / AXP-600

600 W Power Resistor at 125°C bottom case, different terminal options available

EBG RESISTORS

A Miba Group Company

Due to our Non-Inductive design,the AXS, AXF, AXP series is ideally suited for high-frequency and pulse-loading applications. Through direct mounting on a heat sink, significant cost advantage can be realized. Main applications are: variable speed drives, power supplies, control devices, telecommunications, robotics, motor controls and other switching devices.

Features

- Multiple resistors in 1 package
- Different terminal options available
- Non-Inductive design
- ROHS compliant
- Materials in accordance with UL 94 V-0
- General pulse load information (ask for details)
- Resistor is also available with preapplied PCM (Phase Change Material) (ask for details)

Technical Specifications

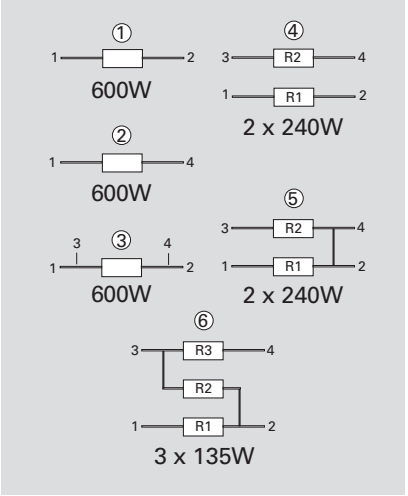
Resistance value	0.15 Ω ≤ 5 KΩ (higher values on special request)
Resistance tolerance	±5 % to 10 % (configuration 4,5,6 only tolerance ±10% possible)
Temperature coefficient	> 1R: ±250 ppm/°C (at +85°C ref. to +25°C) lower TCR on special request for limited ohmic values
Power rating	up to 600 W at 125°C bottom case temperature (see configurations)
Short time overload	1.25x rated power at 85°C bottom case temperature for 10 sec., ΔR = 0.4% max. (for conf. 1, 2 and 3)
Maximum working voltage	1,000 V DC (higher on request)
Voltage proof	dielectric strength up to 4,000 V DC against ground
Insulation resistance	> 10 GΩ at 1,000 V DC
Isolation voltage betweeen R1 & R2 & R3	500 V DC (1,000 V DC on special request)
Protection class	acc. to IEC 950/CSA22.2 950/M-89 and EN 60950.88:2
Comparative Tracking Index (CTI)	standard 600 V
Heat resistance to cooling plate	Rth ≤ 0.083 K/W
Capacitance/mass	25 pF (typical), measuring frequency 10 kHz (depending on type/connection option, ask for details)
Serial inductivity	50 nH (typical), measuring frequency 10 kHz (depending on type/connection option, ask for details)
Working temperature range	-55°C to +155°C
Mounting - torque for base plate (static)	1.3 Nm to 1.5 Nm M4 screws
Mounting - torque for contacts (static)	1.1 Nm to 1.3 Nm M4 screws, screw-in depth max. 5mm
Standard cable length (AXP-600)	100 mm (other lengths on special request)
Standard cable type (AXP-600)	4GKW-AX 1800V
Weight	~16 g

How to make a request

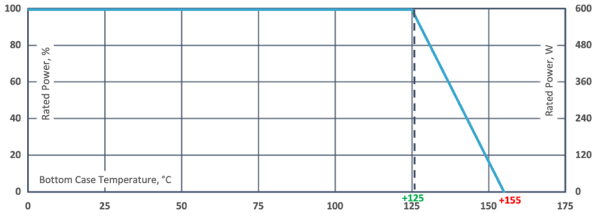
AXS-600-Configuration_Ohmic Value_ Tolerance
AXF-600-Configuration_Ohmic Value_ Tolerance
AXP-600-Configuration_Ohmic Value_ Tolerance

For example:
AXS-600 27R 10% or
AXP-600 2x220R 5%

Configurations (P / package)



Version 5: ohmic value between contact 2 and 4 = 3mΩ



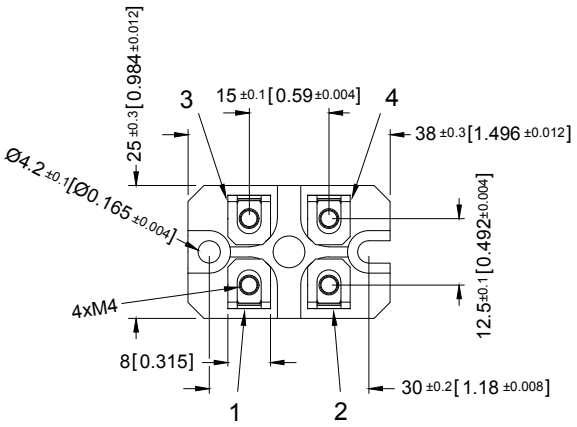
Derating (thermal resist.) AXS-600:
12.05 W/K (≤ 0.083 K/W) (for conf. 1, 2 and 3)

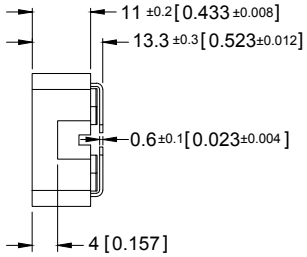
Best results can be reached by using a thermal transfer compound with a heat conductivity of at least 2.9 W/mK. The flatness of the cooling plate must be better than 0.05 mm overall. Surface roughness should not exceed 6.4 µm.

Series AXS-600 / AXF-600 / AXP-600

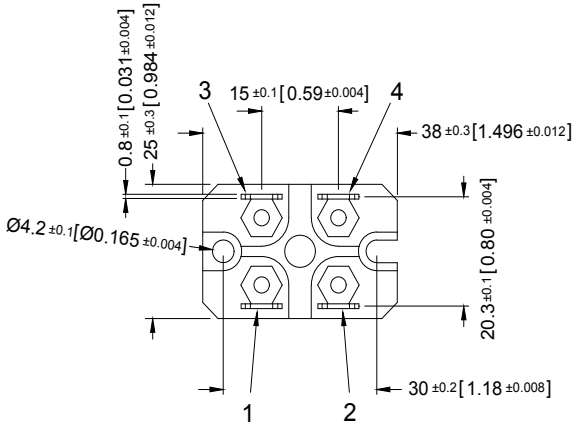
EBG RESISTORS
A Miba Group Company

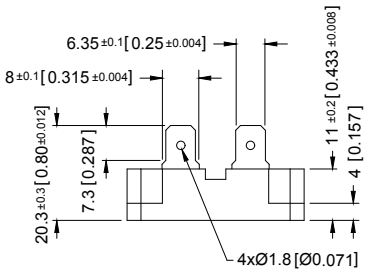
AXS-600 (screw connection)
dimensions in mm [inches]



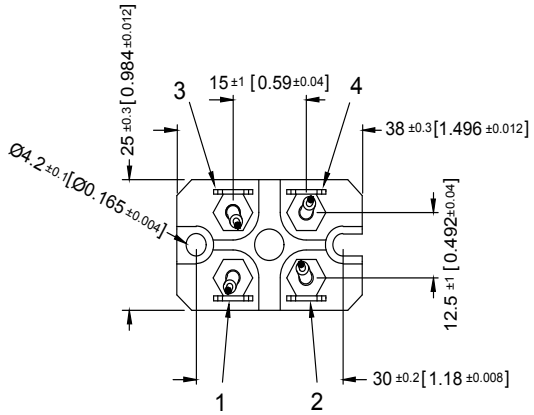


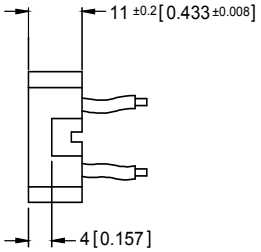
AXF-600 (fast-on connection)
dimensions in mm [inches]





AXP-600 dimensions in mm [inches]
(Terminal standard length = 100mm,
others on special request)





The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

sales@ebg-resistors.com · sales@ebg-us.com

Legal Disclaimer Notice

Disclaimer

EBG RESISTORS

A Miba Group Company

The given statements and information herein are recommendations for the use of our products and are based on our experience in combination with applicable technical standards.
They are for guidance only and do not represent any assurance of characteristics or warranty commitments for the products or their suitability for specific applications.
The suitability of the products for the intended use by the user depends on different boundary conditions and influencing factors and is to be assessed exclusively by the user.

DISCLAIMER:
NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS, DESIGNS, DATA, INFORMATION DESCRIBED OR ANY INTELLECTUAL PROPERTY CONTAINED THEREIN. ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS ALSO EXCLUDED.

The given statements and information herein reflect the current status at the time of publication.
Typing or printing errors cannot be excluded.